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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,153	,153 11/03/2003		Paul Raymond Rust		5564	
20606	7590	02/28/2006		EXAM	INER	
KEITH FRANTZ 401 WEST STATE STREET				LAUX, JE	LAUX, JESSICA L	
SUITE 200				ART UNIT	PAPER NUMBER	
ROCKFORD, IL 61101				3635		

DATE MAILED: 02/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/701,153	RUST ET AL.
Office Action Summary	Examiner	Art Unit
	Jessica Laux	3635
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>03 Λ</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under the practice under the practice of the p	s action is non-final. ince except for formal matters, pro	
Disposition of Claims		
4)	er. are: a) accepted or b) object of drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documen 2. ☐ Certified copies of the priority documen 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been receive au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

Election/Restrictions

Claims 5, 18, 22 and 27 are generic to a plurality of disclosed patentably distinct species comprising

Species I – Figure 6, a protective membrane applied before installation.

Species II – Figure 8, protective membrane applied after installation.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

During a telephone conversation with Mr. Frantz on February 08, 2006 a provisional election was made without traverse to prosecute the invention of Species I, claims 5-27. Affirmation of this election must be made by applicant in replying to this Office action. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at

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least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 5-7, 9, 11, and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Hubbard (2003/0219564).

In regards to claim 5: Hubbard teaches a self adhering membrane for roofs that is capable of bridging a gap between adjacent building modules and to sealably engage adjacent generally coextensive edge strips of roof membranes covering the modules. The membrane comprises: an elastomeric adhesive layer having a tacky lower surface (14) and an oppositely facing upper surface (12); and it may include a porous reinforcing layer within the adhesive layer (paragraph [0016] lines 10-11); and a release strip (16) temporarily adhered to and covering the tacky lower surface of the adhesive layer. The release strip is removable from the adhesive layer to permit positioning of the

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membrane. The tape being sufficiently rigid transversely to form a self supporting bridge resistant to detrimental sagging if positioned over a gap.

In regards to claim 6: The tape according to claim 5 above, characterized by the porous reinforcing layer comprising porous scrim material embedded within the adhesive layer (paragraph [0016] lines 10-11).

In regards to claim 7: The tape according to claim 6 above, characterized by the scrim material comprising an elongate strip of generally flat material having a multiplicity of interstices, with the adhesive layer extending through said interstices between said lower and upper surfaces. Paragraph [0016] lines 10-11 describe a reinforcing mesh or scrim located between the layers wherein the adhesive layer goes between the opening of the mesh or scrim.

In regards to claim 9: The tape according to claim 6 above, characterized as being sufficiently flexible longitudinally to permit its being rolled (paragraph [0022] line 3) for storage, shipment and handling, and unrolled for application and use.

In regards to claim 11: The tape according to claim 6 above, characterized by said adhesive layer comprising at least one of the materials selected from the group consisting of EPDM, EPR, TPO, PVC, Neoprene, Butyl, Polyisobutylene, Halogenated Butyl, Halogenated Polyisobutylene, Isobutylene, reclaimed Butyl, natural rubber and Polydimethylsiloxane (PDMS) (paragraph [0019]).

In regards to claim 16: The tape according to claim 5 above, further comprising a protective outer layer permanently adhered to the upper surface of the adhesive layer (12).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8, 10, 12-15, and 17-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hubbard (2003/0219564).

In regards to claim 8: The tape according to claim 7 above, characterized by the scrim material being selected from the group consisting of an absorbent or woven cloth, porous fiberglass fabric, wire or plastic screen mesh, perforated plastic or metal strip, and other permeable or porous material through which a non-solid may penetrate or be forced. Scrims and meshes made of the above listed material or common in the art, therefore at the time the invention was made it would have been an obvious design choice to use one of the above listed materials for the scrim/mesh material as they are readily available and in common practice.

In regards to claim 10: Hubbard teaches a material with the structure as above that is capable of being sufficiently flexible transversely (paragraph [0017] line 5) to conform to an angle between non-coplanar edge strips of the roof membranes with the adhesive layer adhered to said edge strips.

In regards to claim 12: The tape according to claim 11 above, characterized by the adhesive layer comprising a blend consisting primarily of uncured

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Butyl mixed with other semi-cured polymers to provide the adhesive layer in an initial semi-cured condition. Hubbard discloses an uncured layer (paragraph [0019] lines 20-21). Applicant discloses that the layer may be non-cross-linked, partially cross-linked or fully cross-linked and can be uncured, partially cured or fully cured. As such having a layer consisting primarily of uncured Butyl mixed with semi-cured polymers to provide a semi-cured condition is considered to be an obvious design choice that does not distinguish over Hubbard as Applicant has not disclosed that the claimed subject matter provides an advantage, is used for a particular purpose, or solves a stated problem.

In regards to claim 13: The tape according to claim 6 above, characterized by the adhesive layer having a thickness of between approximately 0.040 to 0.060 inch with the reinforcing scrim embedded therein. Hubbard does not disclose expressly that the thickness is 0.04 to 0.06 inches. Instead, Nash indicates that the thickness ranges from 0.004 to 0.015 inches. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to have the thickness range from 0.040 to 0.060 because the applicant has not disclosed that this thickness provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Hubbbard's adhesive and applicant's adhesive to perform equally well with either the thickness taught by Hubbard or the claimed thickness because both dimensions would perform the same function of adhering to the roof.

Trooping realists.

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In regards to claim 14: Hubbard teaches a material that is capable of bridging a gap of a specified maximum width between building modules; where the reinforcing mesh is located between layers 12 and 14 (paragraph 0016 lines 10-11).

In regards to claim 15: The tape according to claim 6 above, characterized by the adhesive layer comprising cross-linked polymers. Hubbard discloses an adhesive layer that is not cross-linked. Applicant discloses that the layer may be non-cross-linked, partially cross-linked or fully cross-linked. As such having a layer that is non-cross-linked is considered to be an obvious design choice that does not distinguish over Hubbard as Applicant has not disclosed that the claimed subject matter provides an advantage, is used for a particular purpose, or loves a stated problem.

In regards to claim 17: Hubbard teaches a material as in claim 16 above, that is capable of bridging the gap between building modules having roof membranes of a specified base compound; and further characterized by the protective outer layer being non-adhesive, of a thickness of between approximately 0.030 to 0.060 inch (paragraph [0016] lines 13 and 14), and formed of a base compound the same or similar to the specified base compound of the roof membranes (paragraph [0016]).

In regards to claim 18: A tape provided to bridge a specified maximum gap between adjacent building modules and to sealably engage adjacent generally coextensive edge strips of roof membranes covering the modules, the tape comprising: an elastomeric adhesive layer (14) having a tacky lower surface and an oppositely facing tacky upper surface, the adhesive layer being substantially equal in width (paragraph [0017]) to the specified maximum gap width plus the aggregate widths of the

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coextensive edge strips of the roof membranes; a porous reinforcing material embedded in the adhesive layer, the reinforcing material comprising scrim material having a multiplicity of interstices therein (paragraph [0016] lines 10-11), the adhesive layer extending through said interstices of the reinforcing scrim between said lower and upper surfaces (paragraph [0016] lines 10-11)

While Hubbard does not disclose the exact dimensions of the reinforcing scrim, Applicant has not disclosed that having the reinforcing material being of a width of at least approximately the specified maximum gap width and less than the width of the adhesive layer provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Hubbard's material with scrim and applicant's invention, to perform equally well because both have a scrim provided for the reinforcing of roofing materials and perform the same function of sealing the roof. Therefore, it would have been primia facie obvious to modify Hubbard to obtain applicant's invention because such a modification would have been considered a mere design consideration that fails to patentably distinguish over the prior art of Hubbard.

A release strip temporarily adhered to the lower surface of the adhesive layer, the release strip being removable from the lower surface (paragraph [0022] lines 1-4) to permit positioning of the adhesive layer with the reinforcing material embedded therein lengthwise over the gap between the building modules with the tacky lower surface overlapping and sealingly adhering to the coextensive edge strips of the roof membranes;

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Hubbard does not disclose expressly that the thickness of the adhesive layer is 0.04 to 0.06 inches. Instead, Hubbard indicates that the thickness ranges from 0.004 to 0.015 inches. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to have the thickness range from 0.040 to 0.060 because the applicant has not disclosed that this thickness provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Hubbbard's adhesive and applicant's adhesive to perform equally well with either the thickness taught by Hubbard's or the claimed thickness because both dimensions would perform the same function of adhering to the roof.

The material of Hubbard is capable of being sufficiently rigid transversely to form a self supporting bridge resistant to detrimental sagging into the gap between the building modules when positioned over the gap with the tacky lower surface adhered to the coextensive edge strips of the roof membranes; the adhesive layer with the reinforcing material embedded therein further being sufficiently flexible transversely to permit its selective deformation to generally conform to the angle between non-coplanar roof sections of building modules and adhesion of the tacky lower surface to the coextensive edge strips of roof membranes covering such roof sections, and the adhesive layer with the reinforcing material embedded therein further being sufficiently flexible longitudinally to be rolled (paragraph [022] lines 3) for storage, shipment and handling, and unrolled for application over the gap between the building modules.

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In regards to claim 19: The tape according to claim 18 above, characterized by the adhesive layer comprising at least one of the materials selected from the group consisting of EPDM, EPR, TPO, PVC, Neoprene, Butyl, Polyisobutylene, Halogenated Butyl, Halogenated Polyisobutylene, Isobutylene, reclaimed Butyl, natural rubber and Polydimethylsiloxane (PDMS) (paragraph [0019]);

and further characterized by the scrim material being selected from the group consisting of an absorbent or woven cloth, porous fiberglass fabric, wire or plastic screen mesh, perforated plastic or metal strip, and other permeable or porous material through which a non-solid may penetrate or be forced. Scrims and meshes made of the above listed material are common in the art, therefore at the time the invention was made it would have been an obvious design choice to use one of the above listed materials for the scrim/mesh material as they are readily available and in common use as reinforcing scrim and mesh material.

In regards to claim 20: The tape according to claim 18 above, characterized by further comprising a protective outer layer (12) permanently adhered to and covering the tacky upper surface of the adhesive layer, the protective outer layer being non-adhesive and having a thickness of between approximately 0.030 to 0.060 inch (paragraph [0016] lines 13-14).

In regards to claim 21: The tape according to claim 18 above, characterized by the adhesive layer comprising cross-linked polymers. Hubbard discloses an adhesive layer that is not cross-linked. Applicant discloses that the layer may be non-cross-linked, partially cross-linked or fully cross-linked. As such having a layer that is non-

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cross-linked is considered to be an obvious design choice that does not distinguish over Hubbard.

Claims 22-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mule-Hide products (www.mulehide.com/news5.html, 11/01/2001) in view of Hubbard (2003/0219564). Mule-Hide New Release discloses a tape product for bridging a gap between modular roof panels that have a roofing membrane, but does not teach the specific structure of the product. Hubbard discloses a self- adhering membrane that has a protective layer, reinforcing mesh and an adhesive layer that meets all of the requirements of claims 5-21 above. Claims 22-24 and 26-27 incorporate the same structure as claims 5-21. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the tape taught by Hubbard to bridge a gap between panels as taught by Mule-Hide as Hubbard's invention has a reinforcing mesh between protective and adhesive layers and is capable of bridging a gap between panels as taught by Mule-Hide and adhering to the roof. Therefore Mule Hide in view of Hubbard meets all of the claim limitation of claims 22-24 and 26-27.

Claim 25 recites the basic steps of "providing", " unrolling" "positioning" and "adhering". As such, it merely recites the obvious method of installing the tape recited in claims 5-21 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica Laux whose telephone number is 571-272-

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8228. The examiner can normally be reached on Monday thru Friday, 8:30am to 4:00pm (est).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Friedman can be reached on 571-272-6842. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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JL 02/13/2006